



OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/052,283

DATE: 02/12/2002
TIME: 12:01:23

Input Set : A:\P2751R1C1.txt
Output Set: N:\CRF3\02122002\J052283.raw

3 <110> APPLICANT: Baker, Kevin P.
4 Goddard, Audrey
5 Wood, William I.
7 <120> TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES AND METHOD OF USE THEREOF
9 <130> FILE REFERENCE: P2751R1C1
OK > 11 <140> CURRENT APPLICATION NUMBER: US/10/052,283
11 <141> CURRENT FILING DATE: 2002-01-15
11 <150> PRIOR APPLICATION NUMBER: PCT/US00/20006
12 <151> PRIOR FILING DATE: 2000-07-21
14 <150> PRIOR APPLICATION NUMBER: US 60/145,701
15 <151> PRIOR FILING DATE 1999-07-26
17 <160> NUMBER OF SEQ ID NOS: 564
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 478
21 <212> TYPE: DNA
22 <213> ORGANISM: Homo Sapien
24 <220> FEATURE:
25 <221> NAME/KEY: unsure
26 <222> LOCATION: 212, 285, 424
27 <223> OTHER INFORMATION: unknown base
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30 aqtttgttaa aaataataat gccaataata tatgttattt tacgtatgtt 50
32 tatacagatg cacgttatttatactttagt tgtaagtggaa ataaatggca 100
34 aaaatgatac aaggcatagg aagaagaaat taggattata tgctatgtaa 150
36 gaaatcgatgat agtgtttttt gaaaatagac ttgaatttagt tgaaatcc 200
W--> 38 tattgaaaac tntcgccaa acatttttaa aaaataaaaa aatgatatgc 250
W--> 40 taagaaaagaa gagaaaacgg aattcacaca aatgntcaat taaaaccaca 300
W--> 42 aaaggaaagca aaagtgtgga aaacaaaaag gggAACAAAG aataaggca 350
44 caaaacagaaa acagtaacaa atatggtaag cattaatcca actatattaa 400
W--> 46 taatcacttt aaatataat ggtntaaata tgtcaattat aagacagaga 450
48 ttaccagagt ggacacatta tataagct 478
50 <210> SEQ ID NO: 2
51 <211> LENGTH: 682
52 <212> TYPE: DNA
53 <213> ORGANISM: Homo Sapien
55 <220> FEATURE:
56 <221> NAME/KEY: unsure
57 <222> LOCATION: 45, 51, 62
58 <223> OTHER INFORMATION: unknown base
60 <400> SEQUENCE: 2
W--> 61 acgttcgcgg ttcgagggtta gggccccggaa agcccgactt aattnacacgt 50
W--> 63 ntccccggcc gnttccggcc cccccactgtcc gccccttcgg ggcggaggc 100
65 gcgagtcgtgg gctttggcgc cttcgacgac gcaaggcgaca tcctcttcc 150

ENTERED

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67 tagctaaagc cccaaacgcc caggtggctt cctgggagag cacggcttag 200
 69 cctccgcctt cagatcagaa caggcagagc ctccaagggc ggcttgggcc 250
 71 cagtgcctgc ttatcctgcc cgtctctcca cacttcttct ttccctgtcc 300
 73 gttggagttc attccttcct gaaaaagcca aagccgcgtcccctaagag 350
 75 tcatgtgtt cttggattaat taaaattttt gataggtaac agagttttat 400
 77 catcagctt tggattgccta tgactagctc aaagtttaat tttataaac 450
 79 tagtaagtac aataaacctc attccttaat acaaggaaaa gaactatata 500
 81 atgaataactt gtctctatgc ccctctcgca tagataacaa taattttagt 550
 83 ttacctttaa atgaactgca tttaaatgaa attaattttt atgattttt 600
 85 cacqgcacag tttcatcaat ggtctacggt atcccttatt tatgtataca 650
 87 tcaqtttgtt tacatctgtt tctatgttatt tg 682
 89 <210> SEQ ID NO: 3
 90 <211> LENGTH: 835
 91 <212> TYPE: DNA
 92 <213> ORGANISM: Homo Sapien
 94 <220> FEATURE:
 95 <221> NAME/KEY: unsure
 96 <222> LOCATION: 1, 6, 12, 27, 29-31, 49, 53, 56, 58, 61-62, 66, 68, 71, 74,
 78-81, 85-86, 88, 91, 95, 98, 102, 105, 109, 111, 115, 126-127,
 131, 139, 142, 146-147, 157, 163, 166, 169, 175, 177, 184,
 196-197, 199, 210, 215, 217, 219, 222, 228, 234, 236, 238,
 240-241, 244-245, 257, 260, 263, 271, 279, 287, 291-331, 335,
 337, 345, 384, 392, 418, 438, 459, 465, 478, 499, 501, 507, 533,
 562, 579, 587, 598, 616, 630, 656, 661, 667, 671, 684, 702, 746,
 811, 824-835
 104 <223> OTHER INFORMATION: unknown base
 106 <400> SEQUENCE: 3
 W--> 107 nagaangaa gngaaggagg aagaggnnn naagagggag gggaaaagng 50
 W--> 109 ganggnagn nngagnangg nggnngannn nagggnagnag naggncnag 100
 W--> 111 anggnaagng nttgnaagaa aggganngcc ngtaaaana gnaccnnccc 150
 W--> 113 aagaagnat tanggngnt tcctngntga aggntgtgga tcccanntnt 200
 W--> 115 ttcccggnan ttatngntng gnaacaanat ttchangen nacnnaggca 250
 W--> 117 aacaatnaan ttnccaaggt nttggtagna tttcccnccg nnnnnnnnnn 300
 W--> 119 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ngatntnggg gttntcccc 350
 W--> 121 tttcccttc cccttcccc accccggggg ttenggttgg tnaagaaaa 400
 W--> 123 aaaaaaaaaa aagaattntg gcgcggcctc ggcggagntg gtgatcggt 450
 W--> 125 ggtgcataat cggcntctta ctactggnta tttggcatt ctgctggana 500
 W--> 127 natgttngta aataccaaag tcggcgaaa agngaagttg tttccaccat 550
 W--> 129 aacagcaatt tnttttttag caattgcant tatcacntca gcacttgnac 600
 W--> 131 cagaggaaat atttnggtt tcttacatgn aaaatcaaaa tggtacattt 650
 W--> 133 aaggantggg ntaatgntaa ngtcagcaga cagnttgagg acactgtatt 700
 W--> 135 anacggttac tatactttat attctgttat attgttctgt gtgttnttct 750
 137 gqatccctt tgctactta tattatgaag aaaaggatga tcatgtatact 800
 W--> 139 agtagatgtt ntcaaattaa aacnnnnnnn nnnnn 835
 141 <210> SEQ ID NO: 4
 142 <211> LENGTH: 491
 143 <212> TYPE: DNA
 144 <213> ORGANISM: Homo Sapien
 146 <220> FEATURE:

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147 <221> NAME/KEY: unsure
 148 <222> LOCATION: 181, 213, 251, 335, 345-346, 350, 357, 374, 381, 387, 398, 401,
 149 403, 427, 442, 447, 451, 463, 481, 484, 486, 489
 150 <223> OTHER INFORMATION: unknown base
 152 <400> SEQUENCE: 4
 153 aqtttgttaa aaataataat gccaataata tatgttattt aacgtatgtt 50
 155 tataacagat gcacgcttat ttatacttat gtgtaagtga aataaatggc 100
 157 aaaaatgata caaggcatag gaagaagaaa ttaggattat atgctatgt 150
 W--> 159 agaagcagta tagtgtttt tgaaaaataga nttgaattag ttggaaatcc 200
 W--> 161 atattgaaaa ctntcgggca aacattttt aaaaataaaaa aatgatatg 250
 W--> 163 ntaagaaaaga agagaaaacg gaattacaca aaatgctcaa ttaaaaccac 300
 W--> 165 aaaaggaagc aaaagtgtgg aaaacaaaaa ggggnacaaa gaatnnggc 350
 W--> 167 acaaacngca aacagtaaca attntgttaa ncattantcc aattatantt 400
 W--> 169 ncnattactc taaatatcaa tgttttaat atgtctattg tnagacngag 450
 W--> 171 nttaccagag agnacacatt atataaggc ngangngtng g 491
 173 <210> SEQ ID NO: 5
 174 <211> LENGTH: 637
 175 <212> TYPE: DNA
 176 <213> ORGANISM: Homo Sapien
 178 <220> FEATURE:
 179 <221> NAME/KEY: unsure
 180 <222> LOCATION: 4, 12-13, 31, 37, 40, 43-44, 46, 50, 55, 64, 68, 78, 97, 114,
 181 124-125, 137, 148, 183, 185, 227, 233, 236, 238, 264, 266, 268,
 182 276, 322, 325, 334, 340, 345, 417, 426, 428, 472, 474-475,
 183 482-484, 500, 502-503, 509-510, 521, 540, 543, 558, 588-589, 594,
 184 598, 606, 616, 631, 633
 185 <223> OTHER INFORMATION: unknown base
 187 <400> SEQUENCE: 5
 W--> 188 ttcnttgta anngttttg gttccccc ttccnccngn ttnntnttt 50
 W--> 190 ggaanaaaaa tttnaagnata tccaagnaa aaaattaaat tccaagnatt 100
 W--> 192 ggattgaatt cccngggat cttnnagaga tcccttngac tttgaccnaa 150
 W--> 194 gggtcccgct ttaggggaag aagttgggt ttnngntggc cctggtaactg 200
 W--> 196 aagacgcgtt ccgggttagcc caaagangtt tcntantnac ccaaagcccc 250
 W--> 198 gcacccgcct ttntntntt ttcttnngc aggatgaggc gtgcaggcct 300
 W--> 200 gggtaagga gtacttcctg gnaantatgg gaantatgg tatgntaata 350
 202 gtqggatata gtcctgtgaa gaagaaaaatg agaggctcac taaaagttt 400
 W--> 204 agaagcaaag taactgntat aaaatntntt tcccattgaa ataggccatg 450
 W--> 206 aagttaaac ccagaataaa tnannagcgg annnggatta aaaagacgan 500
 W--> 208 tnnacaacnn tgattttgt a ngtataacta tggcataan tgnagatttt 550
 W--> 210 ttccagangg agctaaacaa agatgtgtg agatatgnng aggntatnat 600
 W--> 212 taatntcaa gttgntcac ataggcgagc ntnaaac 637
 214 <210> SEQ ID NO: 6
 215 <211> LENGTH 969
 216 <212> TYPE: DNA
 217 <213> ORGANISM: Homo Sapien
 219 <220> FEATURE:
 220 <221> NAME/KEY: unsure
 221 <222> LOCATION: 12-13, 25, 46, 49, 53, 64, 94, 118, 134, 140, 153, 155, 164, 172,
 222 175, 177, 182, 184, 191, 210, 218, 221, 223-224, 240, 242, 250,

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Input Set A:\P2751R1C1.txt
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223 259, 266-267, 272, 276, 298, 305-306, 319, 339-340, 344, 346,
224 348, 353, 384, 397, 408, 432, 455, 457, 470, 474, 480, 502, 504,
225 519, 525, 559, 579, 597, 625, 629, 631, 634, 645, 649, 655, 657,
226 666, 670, 675, 681, 697, 768, 773, 776, 786, 788, 791, 794, 816,
227 819, 830, 859, 877, 879, 886, 895, 904, 910, 913, 918, 925,
228 927-946, 952, 956, 958, 962, 966, 968-969
229 <223> OTHER INFORMATION: unknown base
231 <400> SEQUENCE: 6
W--> 232 ccccttttc cnnggtttt ttttngaaaa aaaaatttcag gggtanccng 50
W--> 234 ggnnaaaattt aaantccagg gtttgggggg atttcccccgg ggtncctttg 100
W--> 236 gagttccctt ggacctgnaa caaagggttg gaantaaaan aaaaatttaaa 150
W--> 238 aancnggggtt tttngggaa anttnanaat gngnttgggg ncaagaaaaa 200
W--> 240 tgggttttng gggagggnaa ngnnggttca tttccaaatn gnaggggggn 250
W--> 242 aaaaatttna ggcttnnggg gnagggngaa aaaaatttcg tagcctcnag 300
W--> 244 gttgnnattt tttaaacctnc agaagggtggc cagccccgnn tcancngntg 350
W--> 246 atnaaggcag atggaaaaag ggggatatgg ggtntataagg gtacctntca 400
W--> 248 cccttttnga agggaaaaaa gtggtccaca gnattttgt ttacccaagg 450
W--> 250 gtaananatg gaattttgttgaanataggn gaatggtgag gcattttgaa 500
W--> 252 anangggggg ggggttttnt tgaanggggg agtaggggta tggatattta 550
W--> 254 tgggaaaaana gtttttggc actaaaccnt tttgaattac ctaatanatt 600
W--> 256 tatgtggaaa cctgtccctt tttncagnt naanaaaaat tttncccnt 650
W--> 258 gaaantnatt tttagnaagn atatnaaaaag nattttttt ttcaagngtc 700
260 agaaacctt tagcatcatt gaagttaaaa tgactgtcca taaactttc 750
W--> 262 agaaatagta ggcatttnag gcnaacnagat ttgtanangg natnttcata 800
W--> 264 gaattataacc agtganttna ccacctgaan cctcttggat cccgtaagca 850
W--> 266 ttctttgcna caaggaaggg aggtatncng ggttaantcct tgaantttg 900
W--> 268 gacnggaacn atnacttnga atttnnnnn nnnnnnnnnnn nnnnnngccg 950
W--> 270 cngggncntt tntcngnn 969
272 <210> SEQ ID NO: 7
273 <211> LENGTH: 952
274 <212> TYPE: DNA
275 <213> ORGANISM: Homo Sapien
277 <220> FEATURE:
278 <221> NAME/KEY: unsure
279 <222> LOCATION: 1, 3, 7, 23, 30, 38, 49, 53, 64, 68, 84, 90-92, 109, 130, 147,
280 152, 182, 198, 211, 221-222, 228, 239, 243, 255, 271, 300, 303,
281 308-309, 314, 322, 331, 337, 340, 345, 359, 377, 381, 385, 412,
282 422, 452, 463, 469, 475, 541, 547, 586, 777, 780-781, 784-787,
283 789, 798, 802-803, 825, 831, 838, 840, 853, 855, 863, 865, 872,
284 885, 889-890, 907, 921-952
285 <223> OTHER INFORMATION: unknown base
287 <400> SEQUENCE: 7
W--> 288 ngntttngtt ccctttttc ccnggtttt ttttggnaa aaaaatttna 50
W--> 290 ggnnttaaccc agnnaaaat taaattccaa gggntttggn nngaattccc 100
W--> 292 cgggggttnc ttttaggggt tcctttgacn ttgaaccaa ggtttcnggc 150
W--> 294 cnggaggggg gggggaccgg tttttccccc cngcgtttcc cccggggntg 200
W--> 296 ggggttgggg ngcccatgg nngaagtnag tggggagggng gantggaaac 250
W--> 298 ccgggnagttt tggagaaaagg naggttccctt ccttaaccct gggggttccn 300
W--> 300 ggnngccnng gagnggcagt tngggaaata ntgtnagn ggttnnggggg 350

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W--> 302 gttttcctng ggtcccgcca agggggnggt ncttnataaa agggtgtcct 400
W--> 304 ttccccaca gnttccaggt cngagaggag cgcacccgtc gggttggaga 450
W--> 306 tngcgcgcaa ggnggctnt ggttngatt tgcccccat cgcccacagg 500
W--> 308 aaaagctgg tccctaggca cgggtgtggt tcgagcttt ngtttntcg 550
W--> 310 aacattgagg tattcgtcga gccaccacg ttgtcnctgg gtttattagg 600
312 cccagtcac aagccctatg atgtttcag acttcccagg tggagataag 650
314 gaaaattta ctatctgc agaacttctg ttgatgtaca gcattgtatt 700
316 tagcaactc tgttagatc tgaaaataaaa tacattacca atgttagtt 750
W--> 318 gcgttttat taatataatt ttagagnagn ngannnnngnt gtagacnta 800
W--> 320 cnaggtaaa ttatgtggca ctttngcatt nttgtgnnt catgttccc 850
W--> 322 tgnanttgc ttngngatt cnatttattc caaantcann atagaatgt 900
W--> 324 atttccnaac ccacagtccg nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 950
W--> 326 nn 952
328 <210> SEQ ID NO: 8
329 <211> LENGTH: 752
330 <212> TYPE: DNA
331 <213> ORGANISM Homo Sapien
333 <220> FEATURE:
334 <221> NAME/KEY: unsure
335 <222> LOCATION: 4-6, 8, 11, 34, 37, 40, 87, 123, 125, 133-134, 138, 143, 147,
336 166, 171, 174, 199, 242, 263, 302, 305, 333, 363, 380, 423, 425,
337 463, 527, 534, 539, 547-548, 553, 556, 561, 583, 604, 607, 615,
338 618, 621, 624, 628, 638, 641-643, 646, 648, 654-655, 658, 660,
339 666, 674, 676, 679, 688-689, 704, 710-725, 727, 730, 735, 739,
340 741, 745, 747, 749, 751-752
341 <223> OTHER INFORMATION: unknown base
343 <400> SEQUENCE: 8
W--> 344 ggannnnntt ncaaaaatggg atttttaacc aaantanggn agagaaaaagt 50
W--> 346 ttaagtgttt tgccaaaaaa attccaagga aaataangcg gagtttgatt 100
W--> 348 tttcagagtt caacaggaaa aangngaaca aannngccngg agntttnaaa 150
W--> 350 gttttggaa agccanttt natntgttca aggaacagtt ttatattng 200
W--> 352 atgccaatca gaattttgga cccagtataa tcaaggtcag antttcaacc 250
W--> 354 taagcctgga ccngaccat aataacggaa agttaacaa tgactcacat 300
W--> 356 tntctaaag tttccagcca gaataggaca cgntcatttgc tcatatttcc 350
W--> 358 cggtccagag ttnttggatg tagaaaaan tagctttcc caggaacaat 400
W--> 360 tttgtgattc cgccggagaa ggntntgaaa gaatacatca agatattgaa 450
W--> 362 ttttgtatg aanttagcag cagtcactt gaacagataa gggcaaccac 500
W--> 364 acctccaaat caaggaaggc cagatntcc tgcgtatgtt aacctttnag 550
W--> 366 aantgnaaat ntcccgat ggtcttcccc canttcttgg gagcctggta 600
W--> 368 attnagnnta ttggngcngt nganactnat atagacanct nnngngntg 650
W--> 370 ttannatnan cacagnggga catngnatng aagttggnnna cctcttgctt 700
W--> 372 ggantcgggn nnnnnnnnnn nnnnnctcn ccgcngggnc nttnntngng 750
W--> 374 nn 752
376 <210> SEQ ID NO: 9
377 <211> LENGTH: 478
378 <212> TYPE: DNA
379 <213> ORGANISM Homo Sapien
381 <400> SEQUENCE: 9
382 aqtttqttaa aaataataat qccaataata tatqtttattt tacgtatgtt 50

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L:11 M:270 C Current Application Number differs, Replaced Current Application No
L:11 M:271 C Current Filing Date differs, Replaced Current Filing Date
L:38 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:40 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:46 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:61 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:63 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:115 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:117 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:131 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:161 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
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L:165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:171 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:188 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:190 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:192 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:200 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:210 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:232 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:240 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:242 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6

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L 244 M.341 W: (46) "n" or "Xaa" used, for SEQ ID#:6

L 246 M 341 W (46) "n" or "Xaa" used, for SEQ ID#:6

L.248 M 341 W (46) "n" or "Xaa" used, for SEQ ID#:6

L 250 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6

L.17046 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:564